

State of Louisiana  
Department of Transportation and Development (DOTD)  
Materials and Testing Section Qualification Procedure  
for  
Qualified Products List 72

**EROSION CONTROL PRODUCTS  
SLOPE PROTECTION, FLEXIBLE CHANNEL LINERS, & MULCHES**

**MATERIAL SPECIFICATION REFERENCE:**

Louisiana Standard Specifications for Roads and Bridges, 2000 Edition  
(Sections 1018.19 & 1018.24)

**PRELIMINARY REQUIREMENTS:**

Qualified Product Evaluation Form:

The manufacturer shall submit a standard "Qualified Product Evaluation Form" to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Qualified Products List. The letter shall include the type(s) of erosion control system(s) as described in the specifications for which source approval is being requested.

Field Performance Test Data:

Include a copy of the Final Performance Analysis obtained in accordance with the field testing performed by the Texas DOT at the Texas Transportation Institute's Hydraulics and Erosion Control Laboratory (TTI / HECL) that pertains to the system being considered for approval. Also, include a description of the installation procedure (containing lap distances, staple lengths and spacings, tackifier concentrations, etc.), hardware, and additives that were used with the system during the evaluation. A statement affirming the installation procedure used at the TTI / HECL shall accompany the request for approval.

Product Data Sheets:

Include product data sheets with all pertinent information relative to the erosion control system being considered including, but not limited to, manufacturer's specifications and Minimum Average Roll Values (MARV) for mass, thickness, tensile strength, and elongation. Also include product descriptions (including hardware), installation procedure used during evaluation at the TxDOT/TTI Hydraulics and Erosion Control Laboratory, and description of any specialized installation equipment.

Sample (to be furnished at no cost to the Department)

For rolled type products or mats, submit a 3 square yard (meter) sample from the full width of a roll, with both ends cut squarely across the strip. At least one item of each size and type of hardware used with the system shall also be submitted. If the system consists of a sprayed fiber or mulch used with a tackifier, submit one bag of fibers or mulch, along with a sample of the tackifier used in the evaluation at the TTI / HECL (minimum 1 quart (liter)). Emulsified asphalt to be used as the tacking agent shall be from a source listed in QPL 41.

## **TEST REQUIREMENTS:**

### Field Testing:

Field Testing for source approval shall be performed by the TTI / HECL located in Bryan, Texas. Installation fees & options, installation procedures, evaluation procedures, and retest procedures are in accordance with those that are in use by TTI at the time of evaluation. Source approval will be based on conformance of test results with the requirements of subsection 1018.24 for Slope Protection Systems and Flexible Channel Liners. Mulches shall conform to the requirements of subsection 1018.19.

### Laboratory Testing:

The sample(s) submitted with the request for source approval will be used as a reference to identify the components of the system. Laboratory testing to determine mass per unit area in accordance with ASTM D 5261 and thickness in accordance with ASTM D 1777 may be used to verify conformance of mats with the manufacturer's production tolerances.

### Evaluation Time:

Total evaluation time averages 1- 2 weeks if the above required field performance data is included in the submittal. If a field performance evaluation is not included, the total evaluation time will be a minimum of 1 year.

## **GENERAL:**

Erosion control systems include all components including the installation procedure, hardware, and additives (if applicable) that were used during the field performance evaluation. Each component will be verified as being the same as that used during the field evaluation by TTI. Copies of the approved installation procedure will be returned to the source for distribution with each shipment. Approval by extension for the Type A slope condition (3:1) may be given based on conformance with Type A requirements after being tested on the more severe Type B slope condition (2:1).

## **PROJECT ACCEPTANCE REQUIREMENTS:**

Qualification of a product is not blanket approval for its use. Samples of erosion control systems that are intended to be used on Louisiana DOTD projects may be taken at an approved warehouse facility and "pre-tested," or they may be taken at the project site. The sampling procedure for roll-type products will be in accordance with the DOTD Materials Sampling Manual, S 613. Hardware for roll-type products and components of sprayed products and mulches will be sampled in accordance with DOTD S601.

Pre-tested lots of material may be accepted on projects based on a Certificate of Delivery (DOTD Form No. 03-22-0032) showing DOTD laboratory numbers representing the shipment. For materials that are not pre-tested, samples of the component materials used in the system shall be taken by project personnel after delivery to the project site. A copy of the approved

installation procedure shall accompany all shipments. Significant changes in the appearance or make-up of a product submitted for use on a project from the sample submitted during source approval may result in rejection of the material for the project. Final acceptance is dependent upon conformance with project specifications and on test results that identify the components as being representative of those used in the system during the field performance evaluation, including the installation plan.

#### **DISQUALIFICATION:**

Any erosion control product may be removed from the Qualified Products List for non-conformance with specifications or performance requirements. The Materials & Testing Section Coordinator must be notified in writing of any change in the product, its manufacturing process or location, and/or company name changes. Failure to notify the Coordinator of these types of changes may warrant removal from the approved list. Significant changes of the product or manufacturing process may require reevaluation of the product.

#### **RE-QUALIFICATION:**

A product which has been disqualified and removed from the Qualified Products List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved. Re-evaluation procedures are in accordance with the requirements of the TXDOT/TTI Hydraulics and Erosion Control Laboratory requirements regarding retest procedures.

#### **DOTD MATERIALS AND TESTING SECTION COORDINATOR**

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